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Mazdoor Kisan Shakti Sangathan

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“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 10941 (1984): Sizes for dovetail guideways for machine tools [PGD 3: Machine Tools]

“ज्ञान से एक नये भारत का निर्माण”

Satyanaaranay Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartṛhari—Nītiśatakam

“Knowledge is such a treasure which cannot be stolen”



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*Indian Standard*

SIZES FOR DOVETAIL GUIDEWAYS FOR MACHINE TOOLS

1. Scope — Prescribes sizes for dovetail guideways for machine tools.

2. Types

Type A — In which the contacting surfaces are the bottom and side surfaces (see Table 1).

Type B — In which the contacting surfaces are the top and side surfaces (see Table 1).

3. Terminology

3.1 Dovetail Angle (α) — Shall be 50° , 55° or 60° .

3.2 Nominal Width (w) — Defined as the width of the external guideways at the contacting surface.

3.3 Nominal Depth (h) — Defined as the depth of contact between the two sliding members.

3.4 Overall Height (h_1) — Defined as the height of the dovetail including the clearance.

3.5 Gibs — When used, shall be straight or tapered. The standard tapers shall be $1 : 50$ or $1 : 100$.

Note — The guideways may be without gib, with straight gib or with taper gib.

4. Sizes and Width-Depth Combination — The sizes and preferred width-depth combination shall be as given in Table 1.

E X P L A N A T O R Y N O T E

In the preparation of this standard, assistance has been derived from DIN 69052-1971 'Angular guideways' issued by the Deutsches Institut für Normung (DIN).

Adopted 28 June 1984

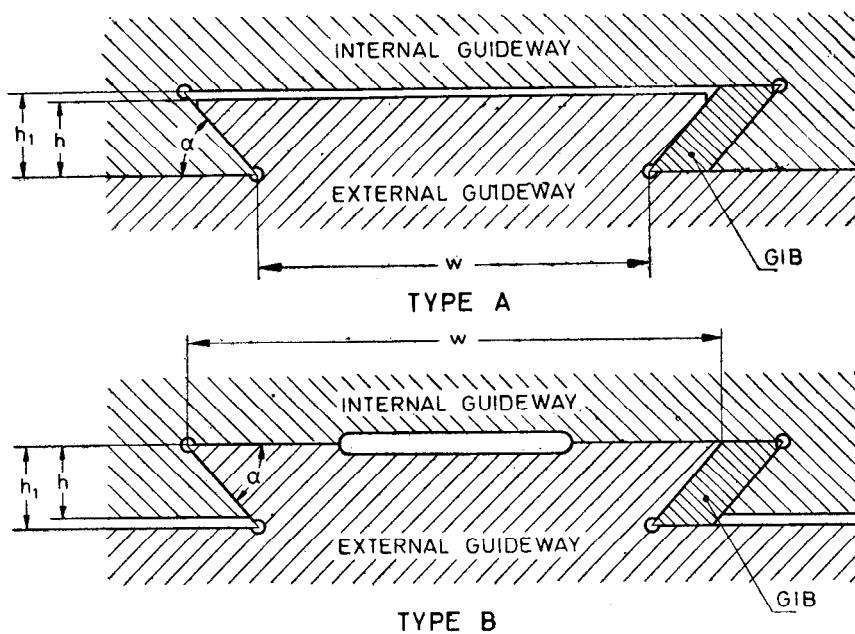
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TABLE 1 SIZES AND PREFERRED WIDTH-DEPTH COMBINATION FOR DOVETAIL GUIDEWAYS

(Clause 4)

All dimensions in millimetres.



w	h													
	5	6	8	10	12	16	20	25	32	40	50	63	80	100
h_1	5.5	6.5	8.5	10.5	12.5	16.5	20.5	25.5	33	41	51	64	81	101
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Note — Preferred width-combination are indicated between bold lines.